## **RAW SEQUENCE LISTING**

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) no errors detected.

Application Serial Number: 10/645,659ASource: 1FW0Date Processed by STIC: 3/15/05

## ENTERED



**IFWO** 

RAW SEQUENCE LISTING DATE: 03/15/2005
PATENT APPLICATION: US/10/645,659A TIME: 14:50:50

Input Set : A:\PTO.FG.txt

```
5 <110> APPLICANT: Yacoby-Zeevi, Oron
             Peretz, Tuvia
     7
             Miron, Daphna
             Shlomi, Yinon
     8
             Pecker, Iris
     9
     10
             Ayal-Hershkovitz, Maty
    11
             Feinstein, Elena
    12
             Van Gelder, Joel M.
             Vlodavsky, Israel
    13
             Friedmann, Yael
    17 <120> TITLE OF INVENTION: HEPARANASE ACTIVITY NEUTRALIZING ANTI- HEPARANASE MONOCLONAL
             ANTIBODY AND OTHER ANTI-HEPARANASE ANTIBODIES
     20 <130> FILE REFERENCE: 26128
C--> 22 <140> CURRENT APPLICATION NUMBER: US/10/645,659A
C--> 22 <141> CURRENT FILING DATE: 2003-08-22
    22 <160> NUMBER OF SEQ ID NOS: 16
     24 <170> SOFTWARE: PatentIn version 3.3
    26 <210> SEQ ID NO: 1
    27 <211> LENGTH: 386
    28 <212> TYPE: PRT
    29 <213> ORGANISM: Homo sapiens
    32 <220> FEATURE:
    33 <221> NAME/KEY: misc_feature
    34 <223> OTHER INFORMATION: 45 kDa subunit of mature processed heparanase dimer
    36 <400> SEOUENCE: 1
    38 Lys Lys Phe Lys Asn Ser Thr Tyr Ser Arg Ser Ser Val Asp Val Leu
     42 Tyr Thr Phe Ala Asn Cys Ser Gly Leu Asp Leu Ile Phe Gly Leu Asn
                                        25
    46 Ala Leu Leu Arg Thr Ala Asp Leu Gln Trp Asn Ser Ser Asn Ala Gln
                                    40
    50 Leu Leu Asp Tyr Cys Ser Ser Lys Gly Tyr Asn Ile Ser Trp Glu
    54 Leu Gly Asn Glu Pro Asn Ser Phe Leu Lys Lys Ala Asp Ile Phe Ile
     58 Asn Gly Ser Gln Leu Gly Glu Asp Phe Ile Gln Leu His Lys Leu Leu
    62 Arg Lys Ser Thr Phe Lys Asn Ala Lys Leu Tyr Gly Pro Asp Val Gly
                    100
                                        105
    66 Gln Pro Arg Arg Lys Thr Ala Lys Met Leu Lys Ser Phe Leu Lys Ala
                                    120
              115
     70 Gly Gly Glu Val Ile Asp Ser Val Thr Trp His His Tyr Tyr Leu Asn
     71
           130
                                135
```

Input Set : A:\PTO.FG.txt

74 (	21.7	Ara	Thr	<b>Δ</b> 1 =	Thr	Ara	Glu	Asp	Dhe	T.eu	Δen	Pro	Δen	Val	T.em	Δen
75	-	AIG	1111	AIG	1111	150	GIU	ASD	FIIC	пеа	155	FIO	Asp	Vai	пец	160
		Phe	Ile	Ser	Ser	Val	Gln	Lys	Val	Phe	Gln	Val	Val	Glu	Ser	Thr
79					165					170					175	
82 2	Arg	Pro	Gly	Lys	Lys	Val	$\mathtt{Trp}$	Leu	Gly	Glu	Thr	Ser	Ser	Ala	Tyr	Gly
83	_	_	_	180					185					190		_
	Gly	Gly		Pro	Leu	Leu	Ser	Asp	Thr	Phe	Ala	Ala	_	Phe	Met	Trp
87	<b>.</b>	3	195	T	a1	T	0	200	7	Ma.	<b>a</b> 1	T1.	205	17a l	17a ]	Mot
	Leu	_	ьys	ьeu	GIY	Leu	215	Ala	Arg	Met	СТА	220	GIU	vai	vai	Mec
91 94 :	Δra	210 Gln	Va 1	Dhe	Dhe	Glv		Gly	Δen	ጥህን	Hic		Va 1	Δsn	Glu	Asn
95	_	GIII	vai	LIIC	1110	230	niu	O <sub>1</sub> y	ADII		235	<b>DCu</b>	var	1101	O_Lu	240
		Asp	Pro	Leu	Pro		Tyr	Trp	Leu	Ser		Leu	Phe	Lys	Lys	Leu
99		1			245	•	-	-		250				•	255	
102	Val	Gly	Thr	Lys	val	. Leu	ı Met	Ala	a Sei	. Val	Glr	Gly	ser Ser	Lys	Arg	g Arg
103				260					265					270		
106	Lys	Leu	. Arg	y Val	Туз	Let	ı His	з Суя	Thi	Asn	Thr	Asp	Asr	1 Pro	Arg	y Tyr
107		_	275			_		280		_			285			
	-		-	/ Asr	Leu	ı Thi		_	: Ala	ı Ile	e Asr			s Asr	ı Val	Thr
111		290		. 7		. D	295		. Dh		. 7	300			7. ~~	
		_	тет.	Arç	ј њес	310		PIC	PHE	e ser	315		GLI	ı val	. ASI	320
	305		T.e.	ι Δτο	ı Pro			, Pro	His	. Glv			Ser	· Tays	s Sei	. Val
119	_	пес	шес	. AL	325		1 01	, 110	, 1111	330			· DCI	. <i>L</i> J.	335	
		Leu	ı Asr	ı Gly			Lei	ı Lys	. Met			Asr	Glr	ı Thı		ı Pro
123				340				•	345		-	-		350		
126	Pro	Leu	Met	Glu	ı Lys	Pro	Lei	ı Arç	g Pro	Gly	seı Seı	Ser	Leu	ı Gly	, Le	ı Pro
127			355					360					365			
				туз	: Sei	Phe			l Ile	e Arg	J Asr		_	val	Ala	a Ala
131		370					375	5				380	)			
	_	Ile	<b>)</b>													
	385		FO 3	D NO	1. 2											
				.b NC												
				PRI												
					Mus	mus	cul	ıs								
				NCE:												
145	Met	Lev	Arg	j Lei	ı Lev	ı Lev	ı Let	ı Trp	Lev	ı Trp	Gly	r Pro	Let	ı Gly	/ Ala	a Leu
146					5					10					15	
149	Ala	Glr	ı Gly	· Ala	a Pro	Ala	a Gly	/ Thi	: Ala	Pro	Thi	: Asr	Asp	Va]	l Val	Asp
150		_	_	20	_				25			_		30	_	
		Glu		туз	Thi	Lys	s Arg		) Let	ı Arg	ser Ser	· Val		Pro	Sei	Phe
154		0	35	mb.	. Tl.	. 7	. 77.	40		. 37-	ար	. 7	45	. 7	- Dha	
		Ser 50	. тте	: INI	. 116	: ASI	55 55	a sei	. тег	ı Alê	Tni	ASE 60	PEC	AIG	y Pne	e Leu
158 161			T.A1	ו מוז	, Ser	· Pro		ים. די	1 Arc	בר <u>מ</u> י	ים.		Δτο	יום נ	, I.e.	ı Ser
162		1116	. дес	. 01)	Jei	70	,,	,	- 13T Z	,	75	110		,1		80
		Ala	. Tvr	: Lei	ı Arc		e Glv	/ Glv	/ Thi	Lvs		Asr	) Phe	e Lei	1 Ile	e Phe
166		_	4		85		-		•	90		-			95	

Input Set : A:\PTO.FG.txt

	Asp	Pro	Asp	Lys	Glu	Pro	Thr	Ser		Glu	Arg	Ser	Tyr	_	Lys	Ser
170			_	100	_		_	_	105	~7	_		_	110		
	Gin	Val		His	Asp	He	Cys	_	Ser	GIu	Pro	Val		Ala	Ala	vaı
174	_	_	115	_	~1		~3	120	_	51	<b>~</b> 1	<b>~</b> 1	125		•	<b>.</b>
	Leu	_	Lys	Leu	GIn	Val		Trp	Pro	Phe	GIn		Leu	Leu	Leu	Leu
178	_	130	<b>~</b> 1		~1	<b>.</b>	135	<b>51</b>	<b>-</b>	•		140	<b></b>	<b>G</b>	3	0
	_	GIU	GIn	Tyr	Gin	_	GIU	Pne	гаг	Asn		Thr	ıyr	ser	arg	
182		1	•		<b>.</b>	150	<b>.</b>	<b>5</b> 1		<b>.</b>	155	<b>a</b>	<b>~</b> 1	*	3	160
	ser	vai	Asp	Met		туг	ser	Pne	Ата	_	Cys	ser	GIY	ьeu		ьeu
186	<b>T</b> 1 -	Dh.	<b>~1</b>	*	165	77-	T	T	7	170	Desc	7	T	7	175	7
	тте	Pne	GIY	Leu	ASII	Ala	ьeu	ьеu	-	TIII	PIO	Asp	ьeu	190	пр	ASII
190	Com	Com	7 ~~	180	C1 =	T 011	T 011	T 011	185	Maran	Crea	Cor	Cor		C111	Път.
194	ser	ser	195	Ala	GIII	пеп	ьęц	200	Asp	ıyı	Cys	SET	205	цур	Gry	TYL
	λan	Tla		Trp	Glu	T.011	Glv		Glu	Pro	Δen	Sar		Trn	Lve	Laze
198	Maii	210	per	ııp	Giu	пеа	215	ASII	GIU	110	ASII	220	riic	11p	цуз	Буз
	Δla		Tle	Leu	Tle	Δsn		T.e.11	Gln	T.e.11	Glv		Asp	Phe	Val	Glu
	225			Lcu		230	<u></u>		0		235	014	p			240
		His	Lvs	Leu	Leu		Ara	Ser	Ala	Phe		Asn	Ala	Lvs	Leu	
206			-1-		245		5			250				_1 -	255	- 2
	Glv	Pro	Asp	Ile	_	Gln	Pro	Arq	Glv		Thr	Val	Lys	Leu	Leu	Arq
210	•		-	260	-			_	265	-			•	270		
213	Ser	Phe	Leu	Lys	Ala	Gly	Gly	Glu	Val	Ile	Asp	Ser	Leu	Thr	Trp	His
214			275	_		_	_	280			_		285			
217	His	Tyr	Tyr	Leu	Asn	Gly	Arg	Ile	Ala	Thr	Lys	Glu	Asp	Phe	Leu	Ser
218		290					295					300				
221	Ser	Asp	Ala	Leu	Asp	Thr	Phe	Ile	Leu	Ser	Val	Gln	Lys	Ile	Leu	
	305			•		310					315					320
	Val	Thr	Lys	Glu		Thr	Pro	Gly	Lys	_	Val	Trp	Leu	Gly		Thr
,226					325	<b>-</b>	<b>-</b>		_	330	_	_	_		335	
	Ser	Ser	Ala	Tyr	Gly	Gly	Gly	Ala		Leu	Leu	Ser	Asn		Phe	Ala
230		~7	51.	340			_	<b>-</b>	345	<b>~</b> 1	<b>.</b>	<b>0</b>		350	<b>36-</b> L	<b>a</b> 1
	Ala	GIA		Met	Trp	ьeu	Asp	_	ьeu	GIY	ьeu	ser		GIN	мес	GIY
234	<b>-1</b> -	<b>a</b> 1	355	77-7	W	7	<b>~1</b>	360	Db -	Dh.a	a1	7.7.0	365	7	Ma ess	114 ~
	ше		vaı	Val	мет	Arg		vai	Pne	Pne	СТА	380	GIY	ASII	ıyı	HIS
238	T 011	370	7 ~~	C1	7 ~~	Dho	375	Dro	T 011	Dro	7 an		Тхх	T 011	cor	T ON
	385	Val	Asp	Glu	ASII	390	GIU	PIO	ьeu	PIO	395	ıyı	пр	Leu	Ser	400
		Dho	Lvc	Lys	Leu		Clv	Pro	Δνα	Wal		T.011	Ser	Δra	Val	
246	пеп	FILE	цуа	цуа	405	vaı	Gry	FIO	Arg	410	шеа	пси	Der	n 9	415	цу
	Gl v	Dro	Δen	Δrα		Lve	T.011	Δra	Val		T.e.11	Hic	Cvs	Thr		Val
250	Gry	FIU	нэр	420	SCI	цуз	ысц	Arg	425	111	шси	1115	Cyb	430	71011	Vul
	Tvr	His	Pro		Tvr	Gln	G] 11	G] v		Len	Thr	Leu	Tvr		Leu	Asn
254	_		435	3	-1-	J-11	J_ U	440	-1~₽	<b></b>			445			
		His		Val	Thr	Lvs	His		Lvs	Val	Pro	Pro		Leu	Phe	Arg
258		450				-1-	455		_, _			460				5
	Lys		Val	asa	Thr	Tyr		Leu	Lys	Pro	Ser		Pro	Asp	Gly	Leu
	465			P		470			_1 -		475	- 2	•			480
		Ser	Lys	Ser	Val		Leu	Asn	Gly	Gln	_	Leu	Lys	Met	Val	
	-		-						-				-			-

Input Set : A:\PTO.FG.txt

266					4 O E					490					495		
266	C1	C1 ~	Th~	T 033	485 Dro	- ר ת	T 011	Th.	C1.,		Dro	T 011	Dro	71-		802	
	Glu	GIII	1111		PIO	ніа	ьеи	1111		гур	PIO	ьeu	PIO		GIĀ	SET	
270	<b>7.7</b> _	T	0	500	Desa	77.	Db -	0	505	a1	Db -	Dha	77m 7	510	7	7.00	
	Ala	ьeu		ьeu	PIO	Ala	Pile		ıyı	GIY	Pile	Pile		TIE	Arg	ASII	
274		<b>T</b>	515	<b>31</b> -	77-	<b>~</b>	<b>~</b> 7.	520					525				
	Ala	-	ше	Ala	АТА	Cys											
.278	014	530	- T		_		535										
	<210																
	<21:				36												
	<212				D - 4 /			•									
						Rattus norvegicus											
	<400					<b>.</b>		•				<b>a</b> 1	<b>3</b>	<b>.</b>	<b>3</b>		
	Met	ьeu	Arg	Pro		Leu	Leu	ьeu	Trp		Trp	GIY	Arg	ьeu	_	Ala	
289		m1	<b>~1</b>	~1	5	<b>D</b>	3.7 -	~1	m\	10	D	m\	<b>T</b>	3	15	77-7	
	Leu	Thr	GIn	_	Thr	Pro	Ата	GIY		Ата	Pro	Thr	гуѕ	_	vaı	vaı	
293	_	_	~1	20		1	_	<b>4</b>	25	<b>5</b> 1	<b>~</b> 1.			30	<b>D</b>		
	Asp	Leu		Pne	Tyr	Thr	ьys	_	Leu	Pne	GIn	Ser		ser	Pro	ser	
297	51	<b>.</b>	35	-1-	m1	-1.	•	40	<b>0</b>	<b>.</b>		m1	45	D	<b>3</b>	DI	
	Phe		ser	тте	Tnr	тте	_	Ата	ser	Leu	Ата		Asp	Pro	Arg	Pne	
301	<b>-</b>	50	D1	<b>.</b>	<b>~</b> 3	<b>a</b>	55	•	<b>.</b>	*		60	<b>37</b> -	<b>3</b>	<b>~1</b>	<b>T</b>	
	Leu	Thr	Pne	Leu	GIY		Pro	Arg	ьeu	Arg		Leu	Ата	Arg	GIY		
305		D	n 7 -	m	<b>.</b>	70	D1	<b>a</b> 1	<b>~1</b>	m1	75	Mla sa	7	Db	T	80	
	Ser	Pro	Ата	Tyr		Arg	Pne	GIY	GIY		гуѕ	Thr	Asp	Pne		iie	
309	-1	_	_		85	~7	_	1 ·	<b>.</b>	90	~1.	•	<b>a</b>	m	95	<b>a</b> 1	
	Phe	Asp	Pro		ьys	GIU	Pro	Thr		GIU	GIU	Arg	ser	_	rrp	Gin	
313		<b>~</b> 3 .		100	•	•	-1		105		~1		**- 7	110		3	
	Ser	GIn	_	Asn	Asn	Asp	тте	_	GLY	Ser	GIU	Arg		ser	Ala	Asp	
317	77- 7	<b>.</b>	115	<b>T</b>	<b>T</b>	<b>~1</b>	W-L	120	<b></b>	D	Dh.	a1	125	T	T	T	
	Val		Arg	ьуѕ	ьeu	GIN		GIU	Trp	Pro	Pne		GIU	ьeu	Leu	ьeu	
321	<b>.</b>	130	<b>a</b> 1	<b>~</b> 3	m	<b>~1</b>	135	<b>~</b> 1	Dl	T	3	140	m1	m	0	7	
	Leu	Arg	GIU	GIII	Tyr		Arg	GIU	Pne	гуѕ		ser	IIII	ıyı	ser	-	
	145	Com	1707	7 ~~	Mot	150	П	Com	Dho	71-	155	Crra	C 0 x	7~~	T 011	160	
	Ser	ser	vaı	Asp		теп	TÀT	ser	Pile		гуѕ	Cys	ser	Arg		Asp	
329	T 011	T1.	Dha	~1··	165	7	71-	T 011	т он	170	mb~	Dro	7 00	T 011	175	Tres	
	Leu	TTE	Pne	_	цец	ASII	Ald	ьеи		Arg	1111	PIO	Asp		Arg	пр	
333	7 an	Cox	Cox	180	ת דת	<b>C1</b> n	T 011	T 011	185	ħ an	The exc	Crrc	C07	190	T	C111	
	Asn	ser		ASII	Ala	GIII	ьеи		теп	ASII	TAT	Cys		Ser	пур	GIY	
337	Tyr	7 ~~	195	Com	<b></b>	~1	T 011	200	7 ~~	~1	Dro	7 an	205	Dho	Пхх	Trra	
	тут		116	ser	пр	GIU	215	GIY	ASII	Giu	PIO	220	Ser	FIIE	пр	пуъ	
341	Tara	210	Cln	Tla	602	Tlo		C111	T 011	Cln	T 011		Glu	λcn	Dha	Wa I	
	Lys	MIG	GIII	тте	Ser	230	ьер	GIY	пец	GIII	235	GIA	GIU	rah	FIIG	240	
	225	Low	ui.	Lazo	Low		ر سات	Larc	80~	7.7 -		Gl n	N cm	7.1 a	Larc		
	Glu	ьeu	птр	пур	245	ъсц	GIII	пλа	SCI	250	FIIG	GIII	TOIL	viq	255	neu	
349	Tyr	G1 v	Dro	700		<u> </u>	<b>C1</b> 2	Dro	7. ~~~		Lare	Thr	Val.	Lare		T.011	
	TÄT	GTÅ	FIO	260	116	дту	GIII	FIO	265	GIA	пув	TIIT	vaı	270	пeп	neu	
353	Arg	C.~	Dha		T 770	ת דת	G1	<b>C1</b> 177		v-1	Tla	λαν	Ser		Thr	ጥ~~	
	Arg	SET	275	ъсц	пλа	wid	GTA	280	GIU	vaı	TTG	vəh	285	пeп	1111	111	
357	His	ui c		<b>Тч</b> ~	Lou	700	C1.		v-1	Δla	ጥኮኍ	Lare		Δαν	Dhe	T.011	
360	птр	птр	TAT	TAT	пец	HSII	GIY	мr	val	TIG	TIIT	nys	GIU	voh	r 11G	пец	

Input Set : A:\PTO.FG.txt

361		290					295					300				
	Ser		Asp	Val	Leu	Asp		Phe	Ile	Leu	Ser		Gln	Lys	Ile	Leu
	305		-			310					315			-		320
368	Lys	Val	Thr	Lys	Glu	Met	Thr	Pro	Gly	Lys	Lys	Val	Trp	Leu	Gly	Glu
369					325					330					335	
372	Thr	Ser	Ser	Ala	Tyr	Gly	Gly	Gly	Ala	${\tt Pro}$	Leu	Leu	Ser	Asn	Thr	Phe
373				340					345					350		
376	Ala	Ala	Gly	Phe.	Met	${\tt Trp}$	Leu	Asp	Lys	Leu	Gly	Leu	Ser	Ala	Gln	Leu
377			355					360					365			
380	Gly	Ile	Glu	Val	Val	Met	Arg	Gln	Val	Phe	Phe	Gly	Ala	Gly	Asn	Tyr
381		370					375					380				
	His	Leu	Val	Asp	Glu		Phe	Glu	Pro	Leu		Asp	Tyr	Trp	Leu	
	385	_		_	_	390	<b>-</b>		_	_	395	_		_	_	400
	Leu	Leu	Phe	Lys	_	Leu	Val	GIY	Pro	_	Val	Leu	Met	Ser		Val
389	-	<b>~</b> 1	<b>.</b>	•	405		<b>.</b>	<b>.</b>	3	410	<b></b>	<b>.</b>	*** -	<b>2</b>	415	7
	Lys	GIY	Pro	_	Arg	ser	гуѕ	ьeu	_	vaı	ıyr	ьeu	HIS		Thr	ASI
393	1701	TTe ess	774.0	420	7	TT=	7~~	<b>~1</b>	425	7	T 011	The	T 011	430	17-1	T 011
396	Val	ıyı	435	PIO	Arg	ıyı	Arg	440	GIY	Asp	ьeu	1111	445	ıyı	vaı	цец
	Asn	T.011		Δen	Val	Thr	Lare		T.e.11	Lvc	T.e.11	Pro		Pro	Met	Phe
401	ASII	450	пта	Poli	vaı	1111	455	1115	пец	цуз	Бец	460	110	110	Mec	FIIC
	Ser		Pro	Val	Asp	Lvs		Leu	Leu	Lvs	Pro		Glv	Ser	Asp	Glv
	465	5				470	-1-			-1-	475		1			480
	Leu	Leu	Ser	Lvs	Ser		Gln	Leu	Asn	Gly		Thr	Leu	Lys	Met	Val
409				4	485					490				•	495	
412	Asp	Glu	Gln	Thr	Leu	Pro	Ala	Leu	Thr	Glu	Lys	Pro	Leu	Pro	Ala	Gly
413				500					505					510		
416	Ser	Ser	Leu	Ser	Val	Pro	Ala	Phe	Ser	Tyr	Gly	Phe	Phe	Val	Ile	Arg
417			515					520					525			
420	Asn	Ala	Lys	Ile	Ala	Ala	Cys	Ile								
421		530					535									
	<21															
425 <211> LENGTH: 543 426 <212> TYPE: PRT																
					77			_								
	<213					o sar	pien	3								
	<400 Met		-			Trea	Dro	λĺο	T 011	Dro	Dro	Dro	Lou	Mot	T 011	Leu
431		ьeu	пеп	Arg	261	пур	PIO	AIG	пеп	10	FIO	PIO	цец	Mec	15	пеп
	Leu	T.e.11	G1 v	Pro	J.E.II	Glv	Pro	T.e.11	Ser		Glv	Δla	T.e.ii	Pro		Pro
436	Deu	пси	O <sub>I</sub>	20	цса	O <sub>T</sub> y	110	Lcu	25	110	O-y	71.Iu		30	**** 9	110
	Ala	Gln	Ala		Asp	۷al	٧al	Asp		asp	Phe	Phe	Thr	Gln	Glu	Pro
440			35		E			40					45			
	Leu	His		Val	Ser	Pro	Ser		Leu	Ser	Val	Thr	Ile	Asp	Ala	Asn
444		50					55					60		-		
	Leu		Thr	Asp	Pro	Arg	Phe	Leu	Ile	Leu	Leu	Gly	Ser	Pro	Lys	Leu
448	_			_		70					75	=			-	80
451	Arg	Thr	Leu	Ala	Arg	Gly	Leu	Ser	Pro	Ala	Tyr	Leu	Arg	Phe	Gly	Gly
452					85	•				90					95	
455	Thr	Lys	Thr	Asp	Phe	Leu	Ile	Phe	Asp	Pro	Lys	Lys	Glu	Ser	Thr	Phe

Input Set : A:\PTO.FG.txt

Output Set: N:\CRF4\03152005\J645659A.raw

## Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:12; Xaa Pos. 1,2,3,4,5,6,7,8
Seq#:13; Xaa Pos. 1,2,3,4,5,6

VERIFICATION SUMMARY

PATENT APPLICATION: US/10/645,659A

DATE: 03/15/2005 TIME: 14:50:51

Input Set : A:\PTO.FG.txt

Output Set: N:\CRF4\03152005\J645659A.raw

L:22 M:270 C: Current Application Number differs, Replaced Current Application No

L:22 M:271 C: Current Filing Date differs, Replaced Current Filing Date

L:847 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:12 after pos.:0 L:887 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:13 after pos.:0